

Temperature scales are automatically defined by the software when a user does not append a 'F' or a 'C' to the numeric entry. A number that is larger than or equal to 45 will be considered as a Fahrenheit temperature, and any number less than 45 will be considered as a Centigrade temperature.

The scales for weight and height cannot be automatically determined. Therefore, the user must enter the scale (U.S. customary unit or metric equivalent) associated with the weight and height.

Menu Display:

```
Select OPTION NAME:  GMRVMGR                Vitals/Measurement

1      Vitals/Measurement Data Entry ...
2      Vitals/Measurements Results Reporting ...
3      Edit a Vital/Measurement Entered in Error
4      Vitals/Measurements Site Files Menu ...
```

Screen Prints:

```
Select Vitals/Measurement Option: 1  Vitals/Measurement Data Entry
ENTER DATE (TIME Required) VITALS WERE TAKEN: T@8 (APR 04, 1993@08:00)
```

The first prompt is a system parameter used to identify the date and time the vitals/measurements were taken; time is required. The date/time is stamped on every vital/measurement that is entered into the system. The Change Date/Time Taken option allows the user to identify a new date/time the measurements were taken, a different vital type, or a new selection of patients without leaving the Vitals/Measurement Data Entry menu. This Change Date/Time Taken option is further explained later in this chapter.

```
1      TPR Pain
2      TPR B/P Pain
3      TPR B/P Ht. Wt. and Pain
4      TPR B/P Wt. and Pain
5      Temp, Detailed PR and B/P
6      Detailed B/P and Associated Pulse
7      Pulse
8      Weight
9      Circumference/Girth
10     Pulse Oximetry
11     CVP (Central Venous Pressure)
12     User Configurable Combination
13     Change Date/Time Taken
14     Pain
```

```
Select Vitals/Measurement Data Entry Option: 1  TPR Pain
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
(P)atient? P
```

Example: Process for entering vitals for an individual patient:

Enter patient name.

Enter/Edit Vitals/Measurements

Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES
SC VETERAN

Enter appropriate hospital location.

Select Hospital Location: 4E// **<RET>**

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the reason for omission.

| The temp-pulse-resp-pain are entered at this prompt.

| Temp-Pulse-Resp-Pain: **102.1-70-24-2**

The following is representative of the software's on-line help:

** Temperature: a number + a location qualifier(optional), e.g., 99.6A
or 99.6AX (F AXILLARY) or 37R (C RECTAL).

Default: ORAL

AXILLARY, CORE, ORAL, RECTAL, SKIN, TYMPANIC

** Pulse: a number + a location qualifier(optional), e.g., 70A or 70AP
(70 APICAL).

Default: RADIAL

APICAL, BILATERAL PERIPHERALS, BRACHIAL, CAROTID, DORSALIS PEDIS, FEMORAL,
OTHER, PERIPHERAL, POPLITEAL, POSTERIOR TIBIAL, RADIAL, ULNAR

** Respiration: a number(0-99 with no decimal places) + method qualifier
(optional) e.g., 40C or 40c.

Default: SPONTANEOUS

ASSISTED VENTILATOR, CONTROLLED VENTILATOR, SPONTANEOUS

The entry should be in the following format:

TTT.T-PPP-RR

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.

Enter an * for the specific value when documenting the reason for omission.

Enter a single * to document that all measurements were omitted and the reason for omission.

The data entry is one single string of alphanumeric characters with each measurement separated by a hyphen (-). The software redisplay the data as:

Temp.: 102.1 F (38.9 C)* ORAL
Pulse: 70 RADIAL
Resp.: 24 SPONTANEOUS
Pain: 2

Note the asterisk (*) following the value for temperature. An asterisk (*) following data indicates that the value is higher or lower than the acceptable values which are defined in the site configurable file GMRV Vitals Parameters (#120.57).

Is this correct? YES// <RET>

At this point the user can reject or accept the entry. This is the last chance to change any possible errors during data entry. The user is able to correct errors at a later time using the error correction option (Edit a Vital/Measurement Entered in Error) which will be discussed later in this chapter.

Do you want to enter other V/M data for this patient? No// <RET> (No)

Select PATIENT NAME: <RET>

This option also supports entering patient vital signs and measurements for all patients on a ward or unit and by selected hospital rooms on a unit. Navigating through the software to document measurements for all patients on a unit is described next.

- | | |
|----|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |
| 10 | Pulse Oximetry |
| 11 | CVP (Central Venous Pressure) |
| 12 | User Configurable Combination |
| 13 | Change Date/Time Taken |
| 14 | Pain |

Select Vitals/Measurement Data Entry Option: 1 TPR Pain

Select the measurement(s) you want to enter.

Example: Entering vitals for all of the patients on a particular unit.

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **A**

Enter the appropriate ward/unit name.

Select Unit: **SICU**

Begin entering patient vitals.

YGAFO, PAUL E 550-1 OK? YES// <RET>

The clinician may enter patient information in the format described for the individual patient or bypass an entry by entering <RET>. The software indicates that no data was entered. The name of the next patient is displayed.

Enter/Edit Vitals/Measurements

| Temp-Pulse-Resp-Pain: <RET>

NO DATA ENTERED

Do you wish to stop looping through names? YES// **N** (NO)

When the clinician enters a NO behind the patient's name, he may continue to the next patient by answering NO to the question 'Do you wish to stop looping through names?', or exit by entering YES.

KJER,JAMES E 550-2 OK? YES// **N** (NO)

KCKK,GEORGE R 560-1 OK? YES// <RET> (YES)

| Temp-Pulse-Resp-Pain: **100.2R-60A-34C-2**

Temp.: 100.2 F (37.9 C) RECTAL

Pulse: 60* APICAL

Resp.: 34* CONTROLLED VENTILATOR

Pain: 2

| Is this correct? YES// <RET>

GEVFCC,MICHAEL E 560-10 OK? YES// **N** (NO)

Do you wish to stop looping through names? YES// <RET> (YES)

Enter return to continue <RET>

- 1 TPR Pain
- 2 TPR B/P Pain
- 3 TPR B/P Ht. Wt. and Pain
- 4 TPR B/P Wt. and Pain
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

| Select Vitals/Measurement Data Entry Option: **3** TPR B/P Ht. Wt. and Pain

Example: Entering vital signs by selecting specific beds. The software prompts for entering information is identical with the previous two pathways, i.e., entering data by patient or by unit.

Vitals by (A)ll patients on a unit, (S)elected Rooms on unit, or (P)atient? **S**

Select Unit: **SICU**

Enter appropriate ward location.

Ward SICU has the following rooms:

1. 550-1
2. 550-2
3. 550-3
4. 550-4
5. 560-1
6. 560-10
7. 560-2
8. 570-1

Select the NUMBER(S) of the rooms: **5-6**

Enter room or range of rooms to enter patient vitals.

Begin entering patient vitals.

KCKK,GEORGE R 560-1 OK? YES// **<RET>**

The software loops through the patients located in Rooms 560-1 and 560-10 and the user enters the vitals/measurements values.

- | | |
|----|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |
| 10 | Pulse Oximetry |
| 11 | CVP (Central Venous Pressure) |
| 12 | User Configurable Combination |
| 13 | Change Date/Time Taken |
| 14 | Pain |

Example: Entering detailed B/P and associated pulse.

Select Vitals/Measurement Data Entry Option: **6** Detailed B/P and Associated Pulse

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **P**

Select PATIENT NAME: **PARKER,PETER P.** -- 500-1 YES
SC VETERAN

Select Hospital Location: 4E// **<RET>** 4E

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the reason for omission.

Enter/Edit Vitals/Measurements

BP-Pulse: **120/70-60**

The software displays selections for documenting detailed blood pressures. Each qualifier must be separated by a comma. The user is not required to enter qualifiers to proceed to the next prompt.

Qualifiers for BLOOD PRESSURE:

LOCATION	POSITION	METHOD	CUFF SIZE
1 L ARM	5 LYING	8 CUFF	12 ADULT
2 L LEG	6 SITTING	9 DOPPLER	13 LG ADULT
3 R ARM	7 STANDING	10 NON-INVASIVE	14 PEDIATRIC
4 R LEG		11 PALPATED	15 SM ADULT
			16 THIGH

Select a number under each category (optional).

Separate the numbers with ',': **1,6,8**

L ARM SITTING CUFF

The software displays selections for documenting detailed pulse.

Qualifiers for PULSE:

SITE	METHOD	POSITION
1 LEFT	3 AUSCULTATE	6 LYING
2 RIGHT	4 DOPPLER	7 SITTING
	5 PALPATED	8 STANDING

Select a number under each category (optional).

Separate the numbers with ',': **1**

LEFT

B/P: 120/70 L ARM SITTING CUFF

Pulse: 60* RADIAL LEFT

Is this correct? YES// **<RET>**

After reviewing the entry, a user can reject or accept the data. This is the last chance to change any possible errors during data entry. The user is able to correct errors at a later time using the error correction option, Edit a Vital/Measurement Entered in Error, which will be discussed later in this chapter.

Enter another B/P? NO// **<RET>**

If YES is entered, the user can enter another B/P and pulse under the same time for a different position, location, etc..

- 1 TPR Pain
- 2 TPR B/P Pain
- 3 TPR B/P Ht. Wt. and Pain
- 4 TPR B/P Wt. and Pain
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

Example: Girth measurement.

Select Vitals/Measurement Data Entry Option: **9** Circumference/Girth
 Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
 (P)atient? **P**

Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES
 SC VETERAN

Select Hospital Location: 4E// **<RET>**

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
 Enter an * for the specific value when documenting the reason for omission.
 Enter a single * to document that all measurements were omitted and the
 reason for omission.

The following is representative of the software's on-line help:

**** Circumference:** a number + 'I' or 'C' (2 decimals allowed)

For example: 72.25I (inches) 147C (centimeters)

The entry should be in the following format:

NNN.NN

Circumference/Girth: **32.25I**

Qualifiers for CIRCUMFERENCE/GIRTH:

LOCATION	SITE
1 ABDOMINAL	10 LEFT
2 ANKLE	11 RIGHT
3 CALF	
4 HEAD	
5 LOWER ARM	
6 OTHER	
7 THIGH	
8 UPPER ARM	
9 WRIST	

Enter/Edit Vitals/Measurements

The user identifies the type of circumference.

Enter a number under each category, separate numbers with a ','
DO NOT select SITE if this is a HEAD/ABDOMINAL girth measurement: **1**
ABDOMINAL

Circumference/Girth: 32.25 IN (81.92 CM) ABDOMINAL
Is this correct? YES// **Y**

Example: Circumference of left lower arm.

To omit entering a vital/measurement reading:
Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the reason for omission.

Circumference/Girth: **12.25I**

Qualifiers for CIRCUMFERENCE/GIRTH:

LOCATION	SITE
1 ABDOMINAL	10 LEFT
2 ANKLE	11 RIGHT
3 CALF	
4 HEAD	
5 LOWER ARM	
6 OTHER	
7 THIGH	
8 UPPER ARM	
9 WRIST	

Enter a number under each category, separate numbers with a ','
DO NOT select SITE if this is a HEAD/ABDOMINAL girth measurement: **5,10**
LOWER ARM LEFT

Circumference/Girth: 12.25 IN (31.12 CM) LOWER ARM LEFT
Is this correct? YES// **<RET>**

Do you want to enter other V/M data for this patient? No// **<RET>** (No)

- | | |
|---|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |

- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

Example: Pulse Oximetry.

Select Vitals/Measurement Data Entry Option: **10** Pulse Oximetry
 Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
 (P)atient? **P**
 Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES
 SC VETERAN

Answer with patient name.

Select Hospital Location: 4E// **<RET>** 4E

Enter appropriate hospital location.

To omit entering a vital/measurement reading:
 Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
 Enter an * for the specific value when documenting the reason for omission.
 Enter a single * to document that all measurements were omitted and the
 reason for omission.

The following is representative of the software's on-line help:

**** Pulse Oximetry:** Enter the numeric value of the patients O2 saturation obtained via pulse oximetry.
 The value will be interpreted as a percentage.
 The entry should be in the following format:
 NNN

PO2: **89**

At this prompt the user may indicate that patient was receiving oxygen at the time the pulse oximetry reading was taken. If YES is entered, additional information on the flow rate, O2 concentration, and method of O2 administration can be entered.

Is the patient on supplemental oxygen? Yes// **<RET>** (Yes)

Enter a number between 0.5-20 for liters/minute, and/or 21-100 for percent of oxygen concentration. If you wish to enter both rates, separate the values with a ','.

Enter the numeric value(s) for amount of supplemental oxygen provided
 (Separate values with a ','): **3.5,40**

Enter/Edit Vitals/Measurements

Oxygen is supplied by

- 1 AEROSOL/HUMIDIFIED MASK
- 2 FACE TENT
- 3 MASK
- 4 NASAL CANNULA
- 5 NON RE-BREATHING
- 6 PARTIAL RE-BREATHING
- 7 T-PIECE
- 8 TRACHEOSTOMY COLLAR
- 9 VENTILATOR
- 10 VENTURI MASK

Enter a number: 1

Pulse Ox.: 89 % with supplemental O2 40% 3.5 l/min
via AEROSOL/HUMIDIFIED MASK

Is this correct? YES// <RET>

Do you want to enter other V/M data for this patient? No// <RET> (No)

- | | |
|----|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |
| 10 | Pulse Oximetry |
| 11 | CVP (Central Venous Pressure) |
| 12 | User Configurable Combination |
| 13 | Change Date/Time Taken |
| 14 | Pain |

Example: Central Venous Pressure (CVP).

Select Vitals/Measurement Data Entry Option: 11 CVP (Central Venous Pressure)

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? P

Select PATIENT NAME: PARKER, PETER P. -- 500-1 YES
SC VETERAN

Select Hospital Location: 4E// <RET> 4E

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the reason for omission.

The following is representative of the software's on-line help:

**** Central venous pressure:** a number for cmH2O measurement or a number + 'G' for mmHg measurement (1 decimal allowed).

A negative number can be entered up to and including -13 cmH2O or -9.6 mmHg.

The entry should be in the following format:

NN

CVP: **14G**

CVP: 19.04 cmH2O (14.0 mmHg)

Is this correct? YES// **<RET>**

Do you want to enter other V/M data for this patient? No// **<RET>** (No)

- | | |
|----|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |
| 10 | Pulse Oximetry |
| 11 | CVP (Central Venous Pressure) |
| 12 | User Configurable Combination |
| 13 | Change Date/Time Taken |
| 14 | Pain |

Example: User Configurable Combination.

Select Vitals/Measurement Data Entry Option: **12** User Configurable Combination

This option allow the users to create their own vital signs and measurements combination(s). Although these selections display all prompts that support documentation of detailed measurements, the user can bypass these prompts.

Select the combination of Vitals/Measurements you want to enter.

- | | |
|---|---------------------|
| 1 | T |
| 2 | P |
| 3 | R |
| 4 | B/P |
| 5 | Wt |
| 6 | Ht |
| 7 | Circumference/Girth |
| 8 | Pulse Oximetry |
| 9 | Pain |

Data on weight and height is documented on a patient.

Enter/Edit Vitals/Measurements

Select from 1 to 9 (enter 1,3-5 etc.) or ^ to exit: **5,6**

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
(P)atient? **P**

Select PATIENT NAME: **PARKER,PETER P.** -- 500-1 YES
 SC VETERAN

Select Hospital Location: 4E// **<RET>**

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the
reason for omission.

The following is representative of the software's on-line help:

**** Weight: a number+L(l) or a number+K(k) + 2nd quality (optional) 2
decimals allowed, e.g., 120.25L or 120l (pounds),
45.25K or 45k (kilograms).**

120L, 120LA, or 120K for actual weight.

Default: ACTUAL

ACTUAL, DRY, ESTIMATED

**** Height: a number + ',' + qualifier (2 decimals allowed)**

72I (inches) 147C or 147CM (centimeters)

5F10I;E or 5FT10IN;E or 5'10";E (for 5 feet 10 inches ESTIMATED)

Default: ACTUAL

ACTUAL, ESTIMATED

The entry should be in the following format:

WWW.WW-HH

Ht.-Wt.: **5'6";E-165.25LE**

Qualifiers for WEIGHT:

METHOD

1 BED

2 CHAIR

3 STANDING

The user may enter a method indicating how the weight was taken or enter **<RET>** to display, and the
then validate data.

Select a number under each category (optional).

Separate the numbers with ',': **1**

BED

Wt.: 165.25 LB (75.11 KG) ESTIMATED BED

Ht.: 5 FT 6 IN (167.64 CM) ESTIMATED

Is this correct? YES// **<RET>**

Do you want to enter other V/M data for this patient? No// **<RET>** (No)

- 1 TPR Pain
- 2 TPR B/P Pain
- 3 TPR B/P Ht. Wt. and Pain
- 4 TPR B/P Wt. and Pain
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

Example: Change Date/Time Taken.

Select Vitals/Measurement Data Entry Option: **7** Pulse

When information is entered using the All patients on a unit or the Selected Rooms on a unit pathway, the user may enter new data with out exiting and re-entering the option by selecting (13) Change Date/Time Taken. This option prompts for a new date/time measurements were taken, a different vital type, and a new selection of patients. As an example, the user documents 6 am pulse readings for 2AS patients, then enters the Change Date/Time Taken option and documents 8 am weights.

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **A**
Select Unit: **2AS**

Begin entering patient vitals.

ANESMJS,ESTELL H OK? YES// **<RET>**

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
Enter an * for the specific value when documenting the reason for omission.
Enter a single * to document that all measurements were omitted and the reason for omission.

Pulse: **86**

Qualifiers for PULSE:

SITE	METHOD	POSITION
1 LEFT	3 AUSCULTATE	6 LYING
2 RIGHT	4 DOPPLER	7 SITTING
	5 PALPATED	8 STANDING

Select a number under each category (optional).

Separate the numbers with ',': **1,3,7**

LEFT AUSCULTATE SITTING

Enter/Edit Vitals/Measurements

Pulse: 86 RADIAL LEFT AUSCULTATE SITTING
Is this correct? YES// <RET>

.
.
.

The user continues to enter 6 am pulse readings, until he selects the Change Date/Time Taken option to enter 8 am weights.

Do you wish to stop looping through names? YES//<RET>
Enter return to continue <RET>

- 1 TPR Pain
- 2 TPR B/P Pain
- 3 TPR B/P Ht. Wt. and Pain
- 4 TPR B/P Wt. and Pain
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

At the next prompt, the user enters, 13, to enter another date/time, new vital types and select patient(s).

Select Vitals/Measurement Data Entry Option: **13** Change Date/Time Taken
ENTER DATE (TIME Required) VITALS WERE TAKEN: **T@8:00** (MAR 03, 1997@08:00)

- 1 TPR Pain
- 2 TPR B/P Pain
- 3 TPR B/P Ht. Wt. and Pain
- 4 TPR B/P Wt. and Pain
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken
- 14 Pain

Select Vitals/Measurement Data Entry Option: **8** Weight
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **A**
Select Unit: **2AS**
Begin entering patient vitals.

ANESMJS, ESTELL H OK? YES// <RET>

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
 Enter an * for the specific value when documenting the reason for omission.
 Enter a single * to document that all measurements were omitted and the reason for omission.

Wt.: **400L**

Qualifiers for WEIGHT:

METHOD

- 1 BED
- 2 CHAIR
- 3 STANDING

Select a number under each category (optional).

Separate the numbers with ',': **2**

CHAIR

Wt.: 400 LB (181.82 KG) ACTUAL CHAIR

Is this correct? YES// **<RET>**

The user continues to select the patients that have 8 am weight readings and exits when documentation is completed.

- | | |
|----|-----------------------------------|
| 1 | TPR Pain |
| 2 | TPR B/P Pain |
| 3 | TPR B/P Ht. Wt. and Pain |
| 4 | TPR B/P Wt. and Pain |
| 5 | Temp, Detailed PR and B/P |
| 6 | Detailed B/P and Associated Pulse |
| 7 | Pulse |
| 8 | Weight |
| 9 | Circumference/Girth |
| 10 | Pulse Oximetry |
| 11 | CVP (Central Venous Pressure) |
| 12 | User Configurable Combination |
| 13 | Change Date/Time Taken |
| 14 | Pain |

Example: Pain.

Select Vitals/Measurement Data Entry Option: **14** Pain

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
 (P)atient? **P**

Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES
 SC VETERAN

Select Hospital Location: 4E// **<RET>** 4E

Enter an * for the specific value when documenting the reason for omission.
 Enter a single * to document that all measurements were omitted and the reason for omission.

Enter/Edit Vitals/Measurements

The following is representative of the software's on-line help:

** Pain: Enter a numeric value. 0 for no pain. 1-10 for pain scale
10 is worst imaginable pain or enter 99 if the patient is unable to respond
For example: 99 or 5

The entry should be in the following format:

NN

Pain: 3

Pain: 3

Is this correct? YES// <RET>

Do you want to enter other V/M data for this patient? No// <RET> (No)

Menu Access:

The Vitals/Measurement Data Entry option is accessed through the Vitals/Measurement menu.

GMRV ERROR EDIT

Edit a Vital/Measurement Entered in Error

Description:

This option allows users to correct errors in vitals/measurements. When data is edited, a new record is created, and the old record is marked entered in error. Vitals/measurements data is stored in the GMRV Vital Measurement (#120.5) file.

Additional Information:

Vitals/measurements data can be retrieved through the Print Vitals Entered in Error for a Patient option. The information entered through this option is also reflected in the Cumulative Vitals Report.

Menu Display:

```
Select OPTION NAME:  GMRVMGR              Vitals/Measurement

1  Vitals/Measurement Data Entry ...
2  Vitals/Measurements Results Reporting ...
3  Edit a Vital/Measurement Entered in Error
4  Vitals/Measurements Site Files Menu ...
```

Screen Prints:

```
Select Vitals/Measurement Option: 3  Edit a Vital/Measurement Entered in Error
```

```
Select PATIENT NAME:  PARKER, PETER P.      08-04-18      931848807      SC
VETERAN
```

Answer with patient name.

```
Select DATE (TIME optional) of this error: T  (APR 04, 1993)
```

Enter an appropriate date. When the exact time is not remembered, the user may enter the date, and all entries for that date display.

CHOOSE FROM:

- ```
1 APR 4, 1993@08:00
 BP: 120/80 (R ARM/LYING)
 T: 102.1 F (38.9 C)* (ORAL)
 R: 24 (SPONTANEOUS)
 P: 70 (RADIAL)
2 APR 4, 1993@08:01
 BP: 130/85 (L ARM/LYING)
```

## Enter/Edit Vitals/Measurements

Select VITAL/MEASUREMENT from the above list: **1**

Enter the number of the measurement or group of measurements you want to enter in error.

A detailed summary of the data is provided.

\*\*\* DATA TO BE ENTERED IN ERROR \*\*\*

APR 4, 1993@08:00

BP: 120/80 R ARM/LYING

T: 102.1 F (38.9 C)\* ORAL

R: 24 (SPONTANEOUS)

P: 70 RADIAL

Select a VITAL type record, or press return to correct DATE/TIME, PATIENT or set INVALID for the record: **RESPIRATION**

In this example, the respirations were incorrectly documented. The user must select an appropriate reason(s) from 1-4.

In this case, the invalid record selection (4) cannot be used in combination with 1, 2, or 3. The user receives the following prompt.

- 1 INCORRECT DATE/TIME
- 2 INCORRECT READING
- 3 INCORRECT PATIENT
- 4 INVALID VITAL/RECORD

The INVALID RECORD reason cannot be used in combination with any other selections.

The following are examples of identifying incorrect patient data using the above four selections:

**INCORRECT DATE/TIME:** changes the date/time that a vital measurement was taken for a patient.

Select the reason(s) for entering this vital/measurement in error: **1**

Enter new date/time vitals were taken: **9A** (APR 04, 1993@09:00)

**INCORRECT READING:** changes the data for a vital/measurement that was taken for a patient. The following prompt displays only if a single/specific vital has been identified for editing.

Select the reason(s) for entering this vital/measurement in error: **2**

NEW RESPIRATION: **20A**

..

The corrected information is entered.

**INCORRECT PATIENT:** changes the patient for a particular vital measurement (e.g., the data was entered for the wrong patient).

Select the reason(s) for entering this vital/measurement in error: **3**

Select the NEW Patient's name: **STARK, ANTHONY L.** 01-19-25 589632111  
NSC VETERAN

**INVALID VITAL/RECORD:** deletes the record without adding any new data. In actuality, the bad record is still in the computer, but is not a part of the current patient data.

Select the reason(s) for entering this vital/measurement in error: **4**

If a combination of the above applies, choices can be selected at one time as described below.

Select PATIENT NAME: **GEVFCC, MICHAEL E** 03-22-22 541969342 NSC  
VETERAN

Select DATE (TIME optional) of this error: **T** (APR 04, 1993)  
CHOOSE FROM:

1 APR 4, 1993@08:00  
BP: 120/80  
T: 100.4 F (38.0 C) (ORAL)  
R: 20 (SPONTANEOUS)  
P: 80 (RADIAL)  
HT: 5 FT 8 IN (172.72 CM)  
WT: 200 LB (90.91 KG) (ACTUAL)

Select VITAL/MEASUREMENT from the above list: **1**

\*\*\* DATA TO BE ENTERED IN ERROR \*\*\*

APR 4, 1993@08:00  
BP: 120/80  
T: 100.4 F (38.0 C) ORAL  
R: 20 (SPONTANEOUS)  
P: 80 RADIAL  
HT: 5 FT 8 IN (172.72 CM)  
WT: 200 LB (90.91 KG) ACTUAL

Select a VITAL type record, or press return to correct DATE/TIME, PATIENT  
or set INVALID for the record: **RESPIRATION**

1 INCORRECT DATE/TIME  
2 INCORRECT READING  
3 INCORRECT PATIENT  
4 INVALID VITAL/RECORD

Select the reason(s) for entering this vital/measurement in error: **1-3**

Enter new date/time vitals were taken: **9A** (APR 04, 1993@09:00)

NEW RESPIRATION: **24A**

Select the NEW Patient's name: **STARK, ANTHONY L.** 01-19-25 589632111  
NSC VETERAN

Select DATE (TIME optional) of this error: **T** (APR 05, 1993)  
CHOOSE FROM:

## Enter/Edit Vitals/Measurements

```
1 APR 5, 1993@08:00
 BP: 130/80 (L ARM/LYING)
 T: 101.2 F (38.4 C) (RECTAL)
 R: 20 (ASSISTED VENTILATOR)
 P: 80 (APICAL)
```

Select VITAL/MEASUREMENT from the above list: **1**

\*\*\* DATA TO BE ENTERED IN ERROR \*\*\*

```
APR 5, 1993@08:00
BP: 130/80 L ARM/LYING
T: 101.2 F (38.4 C) RECTAL
R: 20 ASSISTED VENTILATOR
P: 80 APICAL
```

Select a VITAL type record, or press return to correct DATE/TIME, PATIENT  
or set INVALID for the record: **<RET>**

- 1 INCORRECT DATE/TIME
- 2 INCORRECT PATIENT
- 3 INVALID VITAL/RECORD

Select the reason(s) for entering these vital/measurements in error:

### Menu Access:

The Edit a Vital/Measurement Entered in Error option is accessed through the Vitals/Measurement menu.

Enter appropriate start date.

Start DATE (TIME optional): T-7//**4/1/97** (APR 01, 1997)

Enter appropriate end date.

Go to DATE (TIME optional): NOW// **4/22/97** (APR 22, 1997)

DEVICE: Enter appropriate response

This report must be queued to a line printer or sent to a slave printer configured to print a 132 column report.

## Vitals/Measurements Reports

The following is an example of an SF511 (Vital Signs Record) graph sent to a dot matrix printer:

| Date/Time                                                                                                     | 04/01/97<br>08:00 | 04/02/97<br>10:19 | 04/02/97<br>10:19 | 04/02/97<br>11:03 | 04/02/97<br>11:49        | 04/03/97<br>07:06     | 04/03/97<br>10:54 | 04/03/97<br>10:58     | 04/17/97<br>14:56 | 04/22/97<br>10:53 |
|---------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------|-------------------|
| Pulse Temp/F/C                                                                                                |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| 160 105/40.6-                                                                                                 |                   |                   |                   |                   | T*                       |                       |                   |                       |                   |                   |
| 150 104/40.0-                                                                                                 |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| 140 103/39.4-                                                                                                 |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| 130 102/38.9-                                                                                                 |                   |                   |                   | T*                |                          |                       |                   | T*                    |                   |                   |
| 120 101/38.3-                                                                                                 |                   |                   |                   |                   | P*                       |                       |                   |                       |                   |                   |
| 110 100/37.8-                                                                                                 | T                 |                   |                   |                   |                          |                       |                   |                       | T                 |                   |
| 100 99/37.2-<br>98.6/37.0-                                                                                    |                   |                   |                   |                   |                          | T                     |                   |                       | P                 |                   |
| 90 98/36.7-                                                                                                   |                   |                   |                   |                   |                          |                       | T                 |                       |                   |                   |
| 80 97/36.1-                                                                                                   |                   | P                 |                   | P                 |                          | P                     |                   | P                     |                   | P                 |
| 70 96/35.6-                                                                                                   |                   |                   |                   |                   |                          |                       | P                 |                       |                   |                   |
| 60 95/35.0-                                                                                                   |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| 50 94/34.4-                                                                                                   |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Temperature                                                                                                   |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Pulse                                                                                                         |                   | 100.0 A<br>77     | 45*<br>Rad Pal    | 102.0*T<br>76     | 105.0*R<br>120*          | 99.0 T<br>80 Lt       | 98.0 T<br>72      | 102.0*T<br>82 Lt      | 100.5 T<br>99     | 88<br>Lt Rad Si   |
| Respiration                                                                                                   | 0*S<br>80         | A Aus<br>22 S Si  |                   | Rad<br>30*S       | A Pal<br>45*AV Ly        | Rad Aus Ly<br>20 S Ly | Rad<br>14 S       | Rad Aus Ly<br>12 S Ly | Rad<br>33*S       |                   |
| Pulse Ox.                                                                                                     | 2.5               |                   |                   |                   | 70*<br>2                 |                       |                   | 92<br>4               |                   |                   |
| L/Min                                                                                                         | 30                |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| % Method                                                                                                      |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| BLOOD                                                                                                         |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| PRESSURE                                                                                                      |                   | 99/88<br>RA       | 120/80<br>Si Dop  | 144/90            | NC<br>200/100<br>LA      | 120/88<br>LA          | 130/90            | AM<br>132/92<br>LA    |                   | 167/97<br>LA SmA  |
| Weight (lb)                                                                                                   |                   |                   |                   |                   | Ly N-I LgA<br>166.00 D C | Ly Cu Ad              |                   | Ly Cu Ad              |                   |                   |
| (kg)                                                                                                          |                   |                   |                   |                   | 75.45                    |                       | 140.00 A          | 152.00 A              |                   |                   |
| Body Mass Index                                                                                               |                   |                   |                   |                   | 23                       |                       | 63.64             | 69.09                 |                   |                   |
| Height (in)                                                                                                   |                   |                   |                   |                   | 72.00                    |                       | 19                | 20                    |                   |                   |
| (cm)                                                                                                          |                   |                   |                   |                   | 182.88                   |                       | 73.00 E           | 185.42                |                   |                   |
| C/G (in)                                                                                                      |                   |                   |                   |                   | 12.00 Ank                |                       |                   | 52.00 Abd             |                   |                   |
| (cm)                                                                                                          |                   |                   |                   |                   | 30.48                    |                       |                   | 132.08                |                   |                   |
| CVP (cm H2O)                                                                                                  |                   |                   |                   |                   | 22.0                     |                       |                   | 29.9*                 |                   |                   |
| (mm Hg)                                                                                                       |                   |                   |                   |                   | 16.2                     |                       |                   | 22.0*                 |                   |                   |
| Intake(24 Hr)(cc)                                                                                             |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Output(24 Hr)(cc)                                                                                             |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Pain                                                                                                          |                   |                   | 5                 |                   | 4                        |                       |                   | 0                     |                   |                   |
| T: Temperature P: Pulse C/G: Circumference/Girth * - Abnormal value ** - Abnormal value off of graph          |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Pain: 99 - Unable to respond 0 - No pain 10 - Worst imaginable pain                                           |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| TEMP - A: Axillary R: Rectal T: Tympanic PULSE - A: Apical Aus: Auscultate Lt: Left Ly: Lying Pal: Palpated   |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Rad: Radial Si: Sitting RESP - AV: Assisted ventilator Ly: Lying S: Spontaneous Si: Sitting BP - Ad: Adult    |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Cu: Cuff Dop: Doppler LA: L arm LgA: Lg adult Ly: Lying N-I: Non-invasive RA: R arm Si: Sitting SmA: Sm adult |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| HT - A: Actual E: Estimated WT - A: Actual C: Chair D: Dry PULSE OX - AM: Aerosol/humidified mask NC:         |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Nasal cannula CIRC/GIRTH - Abd: Abdominal Ank: Ankle                                                          |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| STARK, ANTHONY L. 112-33-4443 NOV 4, 1985 11 YRS MALE                                                         |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Unit: ICU Room: 4M1-A                                                                                         |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Division: HINES                                                                                               |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| APR 1, 1997 - APR 22, 1997@24:00                                                                              |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| Page 1                                                                                                        |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| MEDICAL RECORD                                                                                                |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| VITAL FLOW SHEET                                                                                              |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |
| VAF 10-7987 VICE SF 511                                                                                       |                   |                   |                   |                   |                          |                       |                   |                       |                   |                   |

The B/P Plotting Chart, Weight Chart, Pulse Oximetry/Respiratory Graph, and Pain Chart have basically the same appearance with different data. When printing these graphic reports to a Kyocera F-800A or a Hewlett-Packard LaserJet printer, the data on the graph will be connected with lines.

### Menu Access:

The V/M Graphic Reports option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.